

ABSTRACT

A receiving apparatus that is equipped with a decoder that performs equalization and error correction simultaneously, as with a UDMV, for example, and enables burst errors to be corrected and demodulated data error rate characteristics to be improved even when there is fading that causes burst errors in a channel, and a transmitting apparatus that performs data transmission to this receiving apparatus. A transmitting apparatus 100 distributes transmit data to a plurality of carriers of difference frequencies and transmits the transmit data as a plurality of sequences differentiated by frequency. A receiving apparatus 150 performs maximal-ratio-combining of received signals in a combiner 153, performs equalization and Viterbi decoding simultaneously with a UDMV 154, and obtains demodulated data.

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